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Supernovae Discovered Since 1885

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All confirmed supernovae discovered between 1885 and May 1971 are listed in two tables.

TWO comprehensive lists of supernovae have been published in the past few years (Zwicky 1964; Karpowicz and Rudnicki 1968). Since the publication of the latter of these lists, almost one hundred additional supernovae have been found. It seems advisable, therefore, to publish a new list of the known supernovae.

Tables I and II list all of the confirmed supernovae discovered from 1885 through May 1971. Table I lists the supernovae by year of occurrence (or year of observed maximum, in the case of long-duration supernovae). In Table II the supernovae are arranged by the positions of their parent galaxies.

In Table I the first column gives the designation of the supernova. This consists of the year of occurrence of the supernova, followed by a letter indicating the order of its discovery. Next are given the NGC number of the parent galaxy and its 1950 position, type, radial velocity, and photographic magnitude. The eighth and ninth columns give the distance, in seconds of arc, of the supernova from the nucleus of its galaxy, followed by the brightest observed magnitude of the supernova, its spectral type, and the time of maximum brightness—as well as can be determined. The year of maximum is the same as in the designation in Column 1. The last column contains the "discovery number" of the supernova. This is a continuation of the numbering system used by Zwicky in his lists. The numbers are given consecutively to each supernova as it is discovered. Thus, supernova No. 1 is SN 1885a, and supernova No. 300 is SN 1971j.

An updated set of punched cards containing the data for all supernovae can be obtained from the authors at cost. These cards employ the character set of the IBM 029 keypunch. Updated IBM printed lists will also be available at cost.

REFERENCES

Karpowicz, M., and Rudnicki, K. 1968, *Publ. Astron. Obs. Warsaw Univ.* **15**.
Zwicky, F. 1964, "List of Supernovae Discovered Since 1885" (California Institute of Technology, Pasadena, California).

TABLE I. Supernovae discovered since 1885, by date designations: all magnitudes are photographic, unless preceded by "B" or "V". An asterisk after a magnitude means "brighter than, or equal to". A parenthesis following any quantity indicates an approximation.

				Galaxy			Supernova					
SN	NGC	1950 R.A.	Dec.	Type	V	M_{pg}	$D1$	$D2$	M	Type	T_{max}	No.
1885A	N 224	0040.0	+4100	S B	-299	4.3	15W	4S	V 5.8)		AUG18	1
1895A	N4424	1224.7	+0942	SBB		13.1	75E	11S	12.5*		MAR	2
1895B	N5253	1337.1	-3124	IRR	403	10.8	16E	23N	8.0)	(I)	JN/JL	3
1901A	N2535	0808.2	+2520	S C	4135	13.5	19E	7N	14.7*		JAN	4
1901B	N4321	1220.4	+1606	S C	1617	10.6	110W	4N	15.6*		MAR	5
1907A	N4674	1243.4	-0823	S B		14.5	10W	11N	13.5)		MAY10	6
1909A	N5457	1401.5	+5435	S C	266	8.7			12.1)	PEC)	FEB)	7
1912A	N2841	0918.5	+5112	S B	631	9.9	50W	20N	13.0*		FEB)	8
1914A	N4321	1220.4	+1606	S C	1617	10.6	24E	111S	15.7*		FE/MA	9
1915A	N4527	1231.6	+0256	S B	1727	12.4	44E	8S	15.5*		MAR)	10
1917A	N6946	2033.8	+5959	S C	80	10.5	37W	105S	14.6*		JUL	11
1919A	N4486	1228.3	+1240	E1	1261	10.4	15W	100N	12.3)		FE/MA	12
1920A	N2608	0832.2	+2839	SBC	2119	13.2	19W	5N	11.8*		JAN)	13
1921A	N4038	1159.3	-1835	S PEC	1650	11.0			.		MAR)	14
1921B	N3184	1015.3	+4140	S C	418	10.4	32E	160S	13.5)		APR)	15
1921C	N3184	1015.3	+4140	S C	418	10.4	79E	236S	11.0		DEC 9	16
1923A	N5236	1334.3	-2937	S C	506	8.0	109E	58N	14.0	PEC	MAY	17
1926A	N4303	1219.3	+0445	S C	1671	10.9	11W	69N	14.3*	(II)	MAY	18
1926B	N6181	1630.1	+1956	S C	2158	12.7	000	48N	14.8*		JUN)	19
1934A	I4719	1829.0	-5646	S		13.9	6E	13S	13.6)		OCT11	20
1936A	N4273	1217.4	+0537	S C	2302	12.4	000	29N	14.4	II	JAN13	21
1936B	ANON	0118.4	+1526	SBC		15.6			14.0)		SEP	22
1937A	N4157	1208.6	+5047	S C	916	11.9	42E	42N	16.2*	(II)	JAN)	23
1937B	ANON	2207.9	-2256	SBB		14.8	29E	31S	15.3*		AUG)	24
1937C	I4182	1303.5	+3752	S/IRR		14.0	30E	40N	8.4	I	AUG22	25
1937D	N1003	0236.1	+4040	S C	585	12.1	48E	1S	12.8	I	SEP16	26
1937E	N1482	0352.4	-2039	SA P		14.4	24W	51N	15.0*		DEC)	28
1937F	N3184	1015.3	+4140	S C	418	10.4	5E	149S	13.5	(II)	DEC12	27
1938A	ANON	0234.6	+3414	SBC	4800	13.9	8W	28S	15.2)		NOV	29
1939A	N4636	1240.3	+0258	E1	883	11.8	26W	20N	12.2	I	JAN22	30
1939B	N4621	1239.5	+1155	E3	414	11.0	000	53S	11.9	I	MAY 2	31
1939C	N6946	2033.8	+5959	S C	80	10.5	215W	24N	13.0	II	JUL 6	32
1939D	ANON	0055.0	-0516	S B		14.5	9W	11N	16.0*		NOV)	33
1940A	N5907	1514.6	+5630	S B	535	11.4	137E	310S	14.3	II	FEB16	34
1940B	N4725	1248.0	+2546	S(B)B	1114	10.2	95E	118N	12.8	II	MAY 8	35
1940C	I1099	1505.6	+5644	S A		15.0			16.3*		APR)	36
1940D	N4545	1232.4	+6348	S C		13.1	9W	20N	15.0*		JUL	37
1940E	N 253	0045.1	-2534	S C	96	7.0	51W	17S	14.0*	I	NOV	38
1941A	N4559	1233.4	+2814	S C	856	10.7	30W	26N	13.2	II	FEB26	39
1941B	N3254	1026.5	+2945	S B	1228	12.4	10W	34S	15.1*		MAR	40
1941C	N4136	1206.8	+3012	S C	445	12.1	44E	67S	16.8*	II	APR	41
1945A	N5195	1327.9	+4731	PEC	527	10.6	6W	4S	V14.0*	I	FEB)	42
1946A	N3977	1153.5	+5540	S A P		14.7			18.0*		MAY)	43
1946B	N4632	1240.0	+0010	S C		12.6	16E	6N	15.7*	(II)	MAY)	44
1947A	N3177	1013.8	+2122	S B	1220	12.8	17E	40S	16.5*	II	MAR)	45
1948A	N4699	1246.5	-0824	S B	1511	10.5	000	46N	17.0*		MAR)	46
1948B	N6946	2033.8	+5959	S C	80	10.5	222E	60N	14.9*	(II)	JUN)	47
1950A	I4051	1258.5	+2817	E1	4932	14.8	2W	13N	17.7*	I	FEB	48
1950B	N5236	1334.3	-2937	S C	506	8.0	105W	000	14.5*		MAR	49
1950C	N5033	1311.2	+3651	S C	916	10.9	225E	50S	18.2*		MAY)	245

TABLE I (*continued*)

SN	NGC	1950 R.A.	1950 Dec.	Galaxy Type	Galaxy V	Galaxy M_{pg}	Supernova $D1$	Supernova $D2$	Supernova M	Supernova Type	T_{max}	No.
1950D	ANON.	0840.3	+1821	S C		17	8W	12S	16.6*		MAR)	249
1950E	ANON.	1017.5	+1335	S B		15.7	74W	000	17.8*		APR)	250
1951A	ANON.	2152.7	-0432	SBB		15.6	8E	8S	16.6*		AUG)	253
1952A	ANON.	0149.8	+3622	S C		13.9	5W	12N	18.6*		SEP)	240
1952B	ANON.	0923.0	+2940	S C		16	9E	11S	17.8*		JUN)	251
1952C	ANON	1257.6	-0305	IRR		18.1	5W	10S	18.7*		JA/FE	282
1952D	ANON	1114.9	-0248	S C		16.7	11W	15N	19.5*		APR)	283
1952E	ANON	1307.2	-0313	S		18.0	10E	10S	19.8*		APR)	288
1953A	N3561	1108.5	+2859	S B P	8696	15.5	5E	1N	16.0*		APR)	169
1953B	ANON	1619.2	+4014	S C		15.2	20E	6S	17.5*		MAY)	228
1953C	ANON.	1827.4	+4813	S C		14.9	15W	35N	19.0*		JUL)	252
1953D	N3200	1016.2	-1744	S B		12.6	15E	56N	19.5*		MAR)	254
1953E	ANON	2331.2	+2946	S B B		15.1	11E	16S	19.5*		DEC)	267
1953F	ANON	2335.4	+3143	S A		14.1	1E	10N	19.0*		DEC)	268
1953G	ANON	1056.3	+5032	S		16	8E	6N	16.5*		FEB)	273
1953H	ANON	1100.8	+5007			19.5	1E	3S	17.0*		MAR)	274
1954A	N4214	1213.1	+3637	IRR	290	10.3	84E	216S	9.8	I	APR19	50
1954B	N5668	1430.9	+0440	S C	1737	12.7	000	32S	12.3	I	APR29	51
1954C	N5879	1508.4	+5712	S B	876	11.9	14W	11S	14.9	II	OCT 4	52
1954D	ANON	0029.5	+3124	S B		15.1	12W	17S	17.4*		SE/OC	185
1954E	N 753	0154.8	+3540	S C	4766	12.6	42W	25S	18.5*		SEP)	241
1954F	ANON.	0018.5	+2614	S		15.5	6W	N	18.8*		AUG)	242
1954G	ANON.	1232.8	-1858	S C		17.5	13W	5S	16.6*		MAR)	243
1954H	ANON.	1307.9	-0723	IRR		14.5	27E	17S	17.4*		MAY)	246
1954I	ANON	1112.1	-2038	S		17.5	6E	2N	17.3*		JAN)	290
1954J	N2403	0732.0	+6543	S C	136	9.3	36E	100N	16.0*	(V)	OCT)	297
1955A	N4157	1208.6	+5047	S B	916	11.9	103E	40N	16.0*		APR	151
1955B	ANON	0105.0	-1330	S	16024	15.7	2W	5N	15.8		OCT 3	53
1955C	N 23	0007.3	+2539	S B	4568	12.5	10E	10N	V16.0*		OCT	59
1955D	ANON	0049.5	-1641	S PEC		15.1	1E	12N	15.5*		NOV	---
1955E	N4335	1220.6	+5844	E		13.7	19W	7S	16.3*		MAY)	206
1955F	ANON	1201.2	+0159	S B		15.0	15E	17N	19.5*		APR)	284
1956A	N3992	1155.0	+5339	SBB	1059	10.7	67E	9S	12.3	I	MAR18	54
1956B	N4782	1252.0	-1216	DBL E	4343	12.9	40W	15S	18.6*		APR)	239
1956C	ANON	1240.6	+0405	S		16.7	5E	27S	17.6*		FEB)	269
1956D	I 850	1305.2	-0035	S		14.8	12E	6N	19.2*		FEB)	287
1956E	ANON	1128.5	-1552	S C		17.5	3E	4S	19.5*		FEB)	291
1957A	N2841	0918.5	+5112	S B	631	12.5	106W	73N	14.0	IIP	MAR 3	55
1957B	N4374	1222.5	+1310	E1	954	10.8	8W	47N	12.5	I	MAY10	56
1957C	N1365	0331.8	-3618	SBB	1724	11.2	54W	75N	16.5*		OCT	57
1957D	N5236	1334.3	-2937	S C	506	8.0	41W	145N	15.0*		DEC	58
1958A	ANON	1558.6	+1952	E		17.5	1W	5S	19.0*		AUG	114
1958B	ANON	0234.5	+0107	SO		16.0	1W	7N	18.0*		DEC	80
1958C	ANON	1255.4	-3018	S C		17.5	21W	22N	19.6*		APR)	292
1958D	ANON	1151.2	-3028	S C		16.0	6W	13S	19.5*		APR)	294
1959A	N1350	0329.1	-3347	SBC	1802	11.8	22E	70N	16.0*		JAN	60
1959B	N4921	1259.0	+2808	S A	5459	13.7	16E	48S	18.5*	PEC)	FEB)	61
1959C	ANON	1308.8	+0340	SBC	2990	15.4	7E	3S	13.6	I	JUN28	62
1959D	N7331	2234.8	+3410	S B	794	10.4	32W	13N	13.4	II	JUL 4	63
1959E	N4321	1220.4	+1606	S C	1617	10.6	58E	21S	17.5*	I	AU/SE	67
1959F	ANON	0247.2	-0044	SBC		15.1	28E	20N	18.5*		DEC	64
1960A	ANON	0232.8	+0153	S		16.5	5E	8S	16.0*		JAN	76
1960B	ANON	1232.2	+0917	S	12924	15.4	5E	6S	16.0*		FEB	65
1960C	ANON	1204.6	+1716	S B	6740	14.9	4W	9N	17.0*		FEB	66
1960D	ANON	0817.4	+2102	SBC	5008	15.5	18E	26S	16.4*		MAR	68
1960E	ANON	1215.1	+4810	S		17.8	1E	8S	16.5*		MAR)	90
1960F	N4496	1229.1	+0413	SBC	1773	13.3	38E	24N	11.6	I	APR16	69
1960G	ANON	1128.5	+1840	S C		16.0	14E	6S	17.5*		APR	70

TABLE I (*continued*)

SN	NGC	1950 R.A.	1950 Dec.	Galaxy Type	Galaxy V	Galaxy M_{pg}	Supernova $D1$	Supernova $D2$	Supernova M	Supernova Type	T_{max}	No.
1960H	N4096	1203.4	+4745	S C		11.6	67E	114N	14.5*	I	JUN	71
1960I	ANON	1224.6	+4833	S(B)B	4627	14.7	5E	11S	18.5*		JUN	72
1960J	N4375	1222.5	+2850	S A	9165	13.9	37E	17N	18.5*		JUN	73
1960K	ANON	2237.4	+3407	SBB	7386	15.2	10W	6S	19.0*		JUN	74
1960L	N7177	2158.3	+1730	S B	1105	12.2	6E	54S	16.0*		AUG	75
1960M	N2565	0816.9	+2211	SBB	3684	13.8	13W	34N	15.7*	I	SEP	77
1960N	ANON	0823.2	+2137	S C	4349	15.5	11E	12N	16.6*	I	OCT	78
1960O	ANON	2333.9	+2739	S		17.0	1W	10N	18.5*		NOV	79
1960P	ANON	0103.4	+3108	S		15.5	4E	2N	17.5*	I	NOV	81
1960Q	ANON	0133.4	-0545	S		18.5	1E	2S	17.5*		DEC	82
1960R	N4382	1222.9	+1828	SO	765	10.2	8E	132S	12.0)	I	DEC19	86
1961A	ANON	0241.5	+0034	SBB		16.1	9E	27N	19.0*		JAN	83
1961B	I2363	0822.9	+1936	S C		15.0	9E	18N	18.5*		JAN	84
1961C	ANON	0212.3	+4053	S C		16.4	3E	8S	18.2*		JAN	85
1961D	ANON	1248.3	+2806	EO	7638	14.8	32E	12S	V16.5	I	JAN 6	87
1961E	ANON	1515.1	+0514	SO	12900	15.8	10W	2S	17.0*		JAN	88
1961F	N3003	0945.6	+3339	S C	1476	12.3	34E	17N	13.1	IV	FEB23	89
1961G	ANON	1019.6	+2129	S B		16.3	9W	2S	18.2*		APR	91
1961H	N4564	1233.9	+1143	E6		12.2	000	5N	11.2	I	MAY 8	92
1961I	N4303	1219.3	+0445	S C	1671	10.9	82E	12S	13.0)	III	JUN	93
1961J	ANON	1609.8	+2942	S)		19.5	1W	1S	16.0*	III)	JUN)	94
1961K	ANON	1200.8	+1647	S C		14.6	10W	5S	16.3*		MY/JU	95
1961L	N3221	1019.6	+2150	S		14.3	19W	53N	17.5*		JUL)	101
1961M	ANON	0107.2	+3205	E		14.0	16E	37N	17.0*		AUG	97
1961N	I5342	2336.2	+2644	EO		15.4	1E	7S	16.8*		SEP)	98
1961O	ANON	0223.5	+4324	S		17.0	2W	10N	17.0*		SEP)	99
1961P	ANON	0232.5	+3725	S A	3665	13.2	000	36S	14.3	I	SEP12	100
1961Q	N 550	0124.1	+0145	S B		13.6	20W	13N	17.2*		NOV)	104
1961R	ANON	0107.2	+3238	S		15.5	11W	5N	17.0*		OCT	103
1961S	ANON	1018.3	+2158	S		15.8	19E	6S	18.3*		NOV)	102
1961T	ANON	0936.0	+3340	IRR		19.5	3W	5N	17.5*		NOV)	110
1961U	N3938	1150.2	+4423	S C	874	11.0	81E	104N	13.7	II	DEC29	105
1961V	N1058	0240.3	+3708	S C	480	11.8	76E	17N	12.2	V	DEC 5	96
1962A	ANON	1304.3	+2808	SO	6137	16.0	11W	7N	15.6	I	JAN25	106
1962B	ANON	1520.7	+2957	S		14.9	5E	1S	17.0*	I	JAN	108
1962C	ANON	1602.8	+1743	S		18.5	12E	6N	18.0*		JAN	109
1962D	ANON	1030.8	-2739	IRR		17.4	000	2S	16.0*		FEB	107
1962E	ANON	1112.5	+2610	EO	14250	15.5	4W	14S	V17.5*	(I)	FEB	111
1962F	ANON	0814.5	+2150	SBC		14.5	38E	40S	16.5*		MAY	112
1962G	ANON	1526.0	+2911	SO		16.5	4E	4S	19.0*		MAY	113
1962H	I4237	1321.8	-2052	SBB		13.8	19W	3S	13.0)	(II)	JUN	115
1962I	ANON	1300.5	+2747			19.0	8W	7N	17.6)		MAY	116
1962J	N6835	1951.8	-1242	S(B)A		13.0	42W	23S	13.6	I	SEP 1	117
1962K	N1090	0244.0	-0027	SBC		12.8	52W	10N	18.2*		SEP)	118
1962L	N1073	0241.1	+0110	SBC	1874	12.5	10E	77N	B13.9	IPEC	DEC 7	119
1962M	N1313	0317.6	-6640	SBC	254	10.8			11.7*	(II)	NOV	120
1962N	ANON	1519.0	+2631	S		15.6	000	3N	17.0*		DEC	121
1962O	ANON	0321.2	+3951	E	14150	18.6	15E	11N	19.8*		NOV	122
1962P	N1654	0443.3	-0211	E		14.2			14.5*		SEP	145
1962Q	N2276	0710.5	+8551	S C	2391	12.3	34W	11S	16.9*		FE/MA	196
1963A	ANON	1524.9	+2637	S PEC	10400	17.5	10W	1N	18.1*		JAN	123
1963B	ANON	1509.0	+0526	S	11800	15.3	3E	6S	17.0*	I	JAN	124
1963C	ANON	1255.3	+2809	E	6050	15.3	5W	6N	15.7	I	JAN30	125
1963D	N4146	1207.8	+2642	SBB		13.8	19E	27S	15.8	I	JAN20	126
1963E	I1703	0123.8	-0154	S	5688	14.9	2E	11S	16.5*	I	JAN	127
1963F	ANON	1520.3	+2801	S		17.7	1W	7S	V17.6*		MAR	128
1963G	I3112	1215.3	+2618	S C		15.3	7E	17S	15.8*		FEB	129
1963H	ANON	1519.9	+0534	S		15.2	6W	5N	18.5*		MAR	130

TABLE I (*continued*)

SN	NGC	1950 R.A.	1950 Dec.	Galaxy Type	Galaxy V	Galaxy M_{pg}	Supernova $D1$	Supernova $D2$	Supernova M	Supernova Type	T_{max}	No.
1963I	N4178	1210.3	+1108	S C	233	12.9	10W	22S	14.3*	I	MAY	131
1963J	N3913	1148.0	+5537	S		14.2	5W	12S	13.7	I	MAY26	132
1963K	N3656	1120.8	+5407	S PEC		13.4	11E	19S	15.0*		JUN	133
1963L	ANON	0244.8	+3720	S(B)C		14.3	21W	27S	15.0*	I	JUN	134
1963M	ANON	1255.5	+2820	SO P		16.3	2W	7S	V15.9)		JUN	135
1963N	N 536	0123.6	+3427	SB		13.2	28W	7S	17.7*	(II)	JUN	136
1963O	N5905	1514.0	+5542	SBC		13.6	60W	9S	16.0*		AUG	137
1963P	N1084	0243.5	-0747	S C	1465	11.2	33E	8S	B14.0	I	SEP28	138
1963Q	I1195	1604.4	+1719	S		15.4	8W	3N	17.0*		SEP	139
1963R	ANON	0233.2	+3544	S		17.5	2W	1S	16.8*		OCT	140
1963S	ANON	0121.0	+0118	S		15.7	5E	5S	15.0*		DEC	141
1963T	ANON	0121.6	+3347	S		17.7	000	000	17.5*		OCT	142
1963U	ANON	0950.3	+3618	SBC		14.9	2W	9N	15.0*	PEC)	DEC	143
1963V	ANON	0232.0	-0618	IRR		16.5	6W	5S	16.0*		SEP	144
1963W	ANON	0227.8	+4344	S		17	8E	3S	17.0*		AUG)	155
1964A	N3631	1118.2	+5327	S C	1087	11.0	74W	92N	17.0*	(V)	FEB	146
1964B	ANON	0314.8	+4011	S		16.3	22W	12S	16.7*	I	FEB	147
1964C	ANON	1603.8	+1735	SO		16.5	7W	5S	17.3*	I	FEB	148
1964D	N4887	1258.1	-1424	SO		14.8	11E	4S	16.5*		FEB	149
1964E	ANON	1156.6	+5259	SBC P		14.5	83W	44S	12.9*	I	MAR 2	150
1964F	N4303	1219.3	+0445	S C	1671	10.9	28W	1S	14.0*	I	JUN	152
1964G	ANON	1621.9	+3920	S		15.7	3E	11N	16.0*		MY/JU	153
1964H	N7292	2226.1	+3003	S/IRR	934	13.1	28W	9S	14.8*	(II)	JUN	154
1964I	ANON	1621.4	+4120	SBB		18.0	17E	18N	18.0*		SEP	156
1964J	ANON	0033.6	-1010	SC/IR	4866	14.9	4E	10S	17.0*		OCT	157
1964K	ANON	2312.2	+0726	S C	4648	15.7	1W	8S	18.0*		NOV	158
1964L	N3938	1150.2	+4423	S C	874	11.0	3W	31N	13.3	I P)	DEC 8	159
1964M	ANON	1024.5	+2042	S		16.3	14W	5S	18.0*		DEC	162
1964N	ANON	0223.6	+2936	S		15.7	24W	000	16.0*		SEP)	195
1965A	N4410	1223.9	+0917	S PEC		13.6	17E	10N	16.0*		JAN)	160
1965B	ANON	1248.3	-1405	S B		14.2	6W	8N	16.0*		JAN)	161
1965C	ANON	1140.7	+1848	S		16.3	1E	8S	18.0*		JAN	163
1965D	ANON	1037.1	-2739	S		14.5	17E	29N	14.0*		FEB	164
1965E	ANON	0947.2	+3439	S C		16.9	36W	5N	16.4*		MAR	165
1965F	ANON	1608.4	+1911	S(B)A		16.6	11W	2N	18.0*		MAR	166
1965G	N4162	1209.3	+2424	S C	2546	12.6	19E	23S	14.0*		MAR	167
1965H	N4666	1242.6	-0010	S C	1645	12.0	22W	29S	14.0*	II	MAY	168
1965I	N4753	1249.8	-0056	SO P	1364	11.7	98W	68N	13.5*	I	JUN	170
1965J	N1310	0319.1	-3719	S C P		14.8	14E	7S	18.0*		AUG	171
1965K	ANON	0226.4	+3115	S A P		14.5	18W	8S	16.0*		SEP	172
1965L	N3631	1118.2	+5327	S C	1087	11.0	38W	58N	16.0*		SEP	173
1965M	N7606	2316.5	-0846	S C	2341	11.6	30W	50N	16.0*		OCT	174
1965N	N3074	0956.7	+3538	S C		14.8	6E	9N	15.8*		DEC	175
1965O	ANON	1159.8	+5012	NOT CONFIRMED								197
1965P	N2599	0829.2	+2244	S A		13.4	13E	5N	15.7*		MAR	210
1966A	ANON	0911.6	+4707	S		14.0	3E	10S	15.5*		JAN	176
1966B	N4688	1245.2	+0436	SBC		14.5	24W	38S	B15.0*		JA/FE	177
1966C	ANON	1627.5	+4106	S		16.0	12E	4N	16.8*		JAN	178
1966D	ANON	1133.6	+2048	E		15.5	12W	8S	19.5*		JUN	179
1966E	N4189	1211.3	+1342	S C	2044	12.7	20W	36N	14.8)	(II)	JUL	180
1966F	N4453	1226.2	+0647	S(B)C		15.4	7E	6S	V17.5*		JUL	181
1966G	N 521	0122.0	+0128	SBB		12.9	60E	13N	15.5*		AUG	182
1966H	ANON	0118.0	+0310	S C		17.0	6E	1S	19.0*		SEP	183
1966I	ANON	0031.8	+3007	S C	6062	17.0	1W	000	16.0)		SEP15	184
1966J	N3198	1016.9	+4549	S C	649	10.7	100W	165S	13.0*	I	NOV)	186
1966K	ANON	1115.6	+2833	S		14.7	26W	15N	17.8*		DEC	187
1966L	ANON	0108.3	+3335	S C		15.5	7W	3S	17.6*		DEC	188
1966M	ANON	0234.0	+3756	S B		16.5	1E	5S	18.5*		DEC	189

TABLE I (*continued*)

SN	NGC	1950 R.A.	1950 Dec.	Galaxy Type	Galaxy V	Galaxy M_{pg}	Supernova $D1$	Supernova $D2$	Supernova M	Supernova Type	T_{max}	No.
1966N	ANON	0434.3	-0308			16.0	19E	17N	15.0*		OCT	198
1966O		1113.5	+2938	INTER-GALACTIC - NATURE UNCERTAIN					15.5*		FEB)	---
1967A	ANON	0113.9	+0245	IRR)		18.5	5E	000	17.0*		JAN)	190
1967B	ANON	1115.8	+0408	IRR)		18.5	3E	000	14.5*		JAN	191
1967C	N3389	1045.8	+1248	S C	1276	12.0	43W	44N	13.0	I	FEB28	192
1967D	ANON	1151.7	+2018	S B		15.6	12W	9N	19.5*		FEB	193
1967E	ANON	0223.2	+4238	IRR)	26544	17	18W	6N	18.0*		FE/MA	194
1967F	DOES NOT EXIST								•			199
1967G	ANON	1603.9	+1828			18	1E	5N	19.5*		MAY	200
1967H	N4254	1216.3	+1442	S C	2471	10.2	80E	19S	14.6*	(II)	JN/JL	201
1967I	ANON	1526.0	+2849	S B		16.5	3W	6N	18.5*		JUN	202
1967J	ANON	0108.3	+3258	S B		15.7	9W	9N	17.5*		NOV	203
1967K	ANON	0126.9	+3335	S		15.6	13W	14S	15.0*		DEC	204
1968A	N1275	0316.5	+4120	E PEC	5160	13.0	7E	24S	15.5*	I	JAN	205
1968B	N4874	1257.2	+2814	SO	7171	13.7	12W	1N	17.4*		FEB	207
1968C	ANON	1057.5	+2659	IRR		18.0	1E	2S	17.8*		FE/MA	208
1968D	N6946	2033.8	+5959	S C	80	10.5	45E	20N	13.5*	II	FEB	209
1968E	N2713	0854.7	+0306	SBB		12.9	6E	14S	13.5*		MAR	211
1968F	N3834	1141.0	+1922	E		15.1	8W	11N	V16.2*		FEB	212
1968G	ANON	0813.0	+2037	S C P	12800	17.5	12E	2S	17.4*	I	APR	213
1968H	ANON	1255.9	+2724	S B	12050	16.6	9W	2N	16.6	I	MAY 7	214
1968I	N4981	1306.1	-0631	S C		12.3	2E	7N	13.5*	I	APR	215
1968J	ANON	1404.1	+5322	SO		15.4	2W	12S	16.6)		MAY	216
1968K	ANON	1600.8	+1719	S)		18	8E	000	17.5*		MAY	217
1968L	N5236	1334.3	-2937	S C	506	8.0	5W	000	V11.*)	(I)	JUL	218
1968M	ANON	2318.5	+1457	S B		18	5W	7S	15.4		JUL31	219
1968N	ANON	0022.6	+2946	SB	4773	15.5	34E	19S	19.0)		JUL25	220
1968O	ANON	0022.0	+2900	S	4749	14.8	7W	6N	15.8*		AUG 8	221
1968P	ANON	2335.1	+2632	S A		16.5	5E	3S	V16.8*		JUL	222
1968Q	ANON	0116.3	+0440	S		19	5W	5N	18.5*		AUG	223
1968R	ANON	0127.3	-0257	SO			9W	13S	15.5*		AUG	224
1968S	ANON	2142.3	+0251			16.5	2E	2S	16.5*		SEP)	225
1968T	ANON	1625.3	+4122	S C		15.2	2E	14S	V18.0*		OCT	226
1968U	N4183	1210.7	+4358			13.5	20W	95N	14.5*		OCT)	227
1968V	N2276	0710.5	+8551	S C	2391	12.3			V15.7*	(II)	JAN	229
1968W	N2276	0710.5	+8551	S C	2391	12.3			16.6*		MAR)	230
1968X	N4939	1301.7	-1005	S		12.2	35W	8N	16.0*		NOV	231
1968Y	ANON	0129.7	+3203	S		15.7	1W	5N	18.5*		DEC	232
1968Z	N7768	2348.4	+2653	E		14.0	24W	61N	17.9*		SEP)	258
1969A	ANON	0334.9	-3625	S A		16.0			17.*)		JAN	233
1969B	N3556	1108.5	+5556	S C	680	10.7			V16.*)		JA/FE	234
1969C	N3811	1138.6	+4758	S	3120	13.0	9E	6N	13.7	I	FEB	235
1969D	ANON	0515.0	+0547	S		16.5	2W	5N	17.5*		FEB	236
1969E	N4526	1231.5	+0758	SO	447	10.6	11W	27S	16.0*		MAR	237
1969F	ANON.	1317.4	-1652	DBL E		16.0	4W	10S	16.0*		APR)	238
1969G	ANON.	1231.2	+0610	E		17	4E	7N	18.0*		APR	244
1969H	N4725	1248.0	+2546	S(B)B	1114	10.2	18E	10N	15.0*		JUN)	247
1969I	ANON.	1555.6	+1937	S		18	000	9N	17.0*		JUN	248
1969J	ANON.	0123.7	+3122	S B		15.0	5E	7N	17.0*		OCT)	255
1969K	ANON.	2338.2	+2633	SO		15.1	13E	19S	17.5*		NOV)	256
1969L	N1058	0240.3	+3708	S C	480	11.8	190E	110S	12.8	II	DEC 4	257
1969M	ANON.	0326.5	+3951	S		16.5	15E	1S	17.5*		DEC)	259
1969N	ANON.	0127.8	-0112	IR.DW		19	9W	4S	16.0*		DEC	260
1969O	ANON	0103.8	+0253			18.	6W	7S	18.2*		SEP	276
1970A	I3476	1230.2	+1420	S C		13.5	17W	26S	14.0		FEB	261
1970B	ANON	1050.4	+1421	S/IRR		16.5	1E	7N	15. *		MAR	262
1970C	ANON	1258.0	-0612	S C		14.5	9W	29N	16. *		MAR	263
1970D	ANON	1035.2	+1101	S(B)B		15.1	6E	12N	17. *		APR	264

TABLE I (*continued*)

SN	NGC	1950 R.A.	1950 Dec.	Galaxy Type	Galaxy V	Galaxy M_{pg}	Supernova $D1$	Supernova $D2$	Supernova M	Supernova Type	T_{max}	No.
1970E	ANON	1201.5	+5212	S		17.5	2E	5S	18.5*		MAY	265
1970F	ANON	1148.1	+5320	S		16.5	4E	5N	19.0*		MAY	266
1970G	N5457	1401.5	+5435	S C	266	8.7	97W	370S	11.0		JUL	270
1970H	ANON	2220.2	+3546	S C		16	13W	15N	17. *		AUG	271
1970I	ANON	2315.1	+0544	S		16.0	12W	5S	18.0*		SEP	272
1970J	N7619	2317.7	+0755	E 3	3757	12.7	27W	30S	14.5		SEP	275
1970K	ANON	0239.4	+3620	S A		16.7	<1E	8S	18.5*		OCT	277
1970L	N2968	0940.2	+3210	IRR/P		13.1	120E	75N	15.5*		OCT	278
1970M	ANON	1045.6	+1419			16.5	13E	1N	16.5*		NOV	279
1970N	ANON	0102.0	-3523			.	000	17N	18.8*		AUG)	296
1971A	ANON	1115.6	+2833	S		14.7	18E	13S	16.5*		JAN	280
1971B	ANON	1149.9	+4924	S C		16.0	22W	20S	17.5*		JAN	281
1971C	N3904	1146.7	-2902	E 3		11.9	167W	60S	V15.3*		JAN)	285
1971D	N5861	1506.4	-1108	S C		12.4	33E	2N	V15.5*		FEB)	286
1971E	ANON	1523.1	+2633	S		16.5	9E	8S	17.5*		MAR	289
1971F	ANON	1410.9	-3222	S B		16.0	44W	6N	17.3*		MAR	293
1971G	N4165	1209.7	+1331	S C		14.7	3E	30S	14. *		APR	295
1971H	ANON	1118.2	+2834	S		18.	11E	30S	18. *		APR	298
1971I	N5055	1313.5	+4217	S B	+519	9.7	2W	147S	V11.8*	I	JUN	299
1971J	ANON	1203.5	+1406	IRR)		18.5	1E	1N	18. *		MAY	300

TABLE II. Supernovae discovered since 1885, by position.

SN	R.A.	Dec.	SN	R.A.	Dec.	SN	R.A.	Dec.
1955C	0007.3	+2539	1937D	0236.1	+4040	1921C	1015.3	+4140
1954F	0018.5	+2614	1970K	0239.4	+3620	1937F	1015.3	+4140
1968O	0022.0	+2900	1961V	0240.3	+3708	1953D	1016.2	-1744
1968N	0022.6	+2946	1969L	0240.3	+3708	1966J	1016.9	+4549
1954D	0029.5	+3124	1962L	0241.1	+0110	1950E	1017.5	+1335
1966I	0031.8	+3007	1961A	0241.5	+0034	1961S	1018.3	+2158
1964J	0033.6	-1010	1963P	0243.5	-0747	1961G	1019.6	+2129
1885A	0040.0	+4100	1962K	0244.0	-0027	1961L	1019.6	+2150
1940E	0045.1	-2534	1963L	0244.8	+3720	1964M	1024.5	+2042
1955D	0049.5	-1641	1959F	0247.2	-0044	1941B	1026.5	+2945
1939D	0055.0	-0516	1964B	0314.8	+4011	1962D	1030.8	-2739
1970N	0102.0	-3523	1968A	0316.5	+4120	1970D	1035.2	+1101
1960P	0103.4	+3108	1962M	0317.6	-6640	1965D	1037.1	-2739
1969O	0103.8	+0253	1965J	0319.1	-3719	1970M	1045.6	+1419
1955B	0105.0	-1330	1962O	0321.2	+3951	1967C	1045.8	+1248
1961M	0107.2	+3205	1969M	0326.5	+3951	1970B	1050.4	+1421
1961R	0107.2	+3238	1959A	0329.1	-3347	1953G	1056.3	+5032
1966L	0108.3	+3335	1957C	0331.8	-3618	1968C	1057.5	+2659
1967J	0108.3	+3258	1969A	0334.9	-3625	1953H	1100.8	+5007
1967A	0113.9	+0245	1937E	0352.4	-2039	1953A	1108.5	+2859
1968Q	0116.3	+0440	1966N	0434.3	-0308	1969B	1108.5	+5556
1966H	0118.0	+0310	1962P	0443.3	-0211	1954I	1112.1	-2038
1936B	0118.4	+1526	1969D	0515.0	+0547	1962E	1112.5	+2610
1963S	0121.0	+0118	1962Q	0710.5	+8551	1966O	1113.5	+2938
1963T	0121.6	+3347	1968V	0710.5	+8551	1952D	1114.9	-0248
1966G	0122.0	+0128	1968W	0710.5	+8551	1966K	1115.6	+2833
1963N	0123.6	+3427	1954J	0732.0	+6543	1971A	1115.6	+2833
1969J	0123.7	+3122	1901A	0808.2	+2520	1967B	1115.8	+0408
1963E	0123.8	-0154	1968G	0813.0	+2037	1971H	1118.2	+2834
1961Q	0124.1	+0145	1962F	0814.5	+2150	1964A	1118.2	+5327
1967K	0126.9	+3335	1960M	0816.9	+2211	1965L	1118.2	+5327
1968R	0127.3	-0257	1960D	0817.4	+2102	1963K	1120.8	+5407
1969N	0127.8	-0112	1961B	0822.9	+1936	1956E	1128.5	-1552
1968Y	0129.7	+3203	1960N	0823.2	+2137	1960G	1128.5	+1840
1960Q	0133.4	-0545	1965P	0829.2	+2244	1966D	1133.6	+2048
1952A	0149.8	+3622	1920A	0832.2	+2839	1969C	1138.6	+4758
1954E	0154.8	+3540	1950D	0840.3	+1821	1965C	1140.7	+1848
1961C	0212.3	+4053	1968E	0854.7	+0306	1968F	1141.0	+1922
1967E	0223.2	+4238	1966A	0911.6	+4707	1971C	1146.7	-2902
1961O	0223.5	+4324	1912A	0918.5	+5112	1963J	1148.0	+5537
1964N	0223.6	+2936	1957A	0918.5	+5112	1970F	1148.1	+5320
1965K	0226.4	+3115	1952B	0923.0	+2940	1971B	1149.9	+4924
1963W	0227.8	+4344	1961T	0936.0	+3340	1961U	1150.2	+4423
1963V	0232.0	-0618	1970L	0940.2	+3210	1964L	1150.2	+4423
1961P	0232.5	+3725	1961F	0945.6	+3339	1958D	1151.2	-3028
1960A	0232.8	+0153	1965E	0947.2	+3439	1967D	1151.7	+2018
1963R	0233.2	+3544	1963U	0950.3	+3618	1946A	1153.5	+5540
1966M	0234.0	+3756	1965N	0956.7	+3538	1956A	1155.0	+5339
1958B	0234.5	+0107	1947A	1013.8	+2122	1964E	1156.6	+5259
1938A	0234.6	+3414	1921B	1015.3	+4140	1921A	1159.3	-1835

TABLE II (*continued*)

SN	R.A.	Dec.	SN	R.A.	Dec.	SN	R.A.	Dec.
1965O	1159.8	+5012	1965H	1242.6	-0010	1962N	1519.0	+2631
1961K	1200.8	+1647	1907A	1243.4	-0823	1963H	1519.9	+0534
1955F	1201.2	+0159	1966B	1245.2	+0436	1963F	1520.3	+2801
1970E	1201.5	+5212	1948A	1246.5	-0824	1962B	1520.7	+2957
1960H	1203.4	+4745	1940B	1248.0	+2546	1971E	1523.1	+2633
1971J	1203.5	+1406	1969H	1248.0	+2546	1963A	1524.9	+2637
1960C	1204.6	+1716	1961D	1248.3	+2806	1962G	1526.0	+2911
1941C	1206.8	+3012	1965B	1248.3	-1405	1967I	1526.0	+2849
1963D	1207.8	+2642	1965I	1249.8	-0056	1969I	1555.6	+1937
1937A	1208.6	+5047	1956B	1252.0	-1216	1958A	1558.6	+1952
1955A	1208.6	+5047	1963C	1255.3	+2809	1968K	1600.8	+1719
1965G	1209.3	+2424	1958C	1255.4	-3018	1962C	1602.8	+1743
1971G	1209.7	+1331	1963M	1255.5	+2820	1964C	1603.8	+1735
1963I	1210.3	+1108	1968H	1255.9	+2724	1967G	1603.9	+1828
1968U	1210.7	+4358	1968B	1257.2	+2814	1963Q	1604.4	+1719
1966E	1211.3	+1342	1952C	1257.6	-0305	1965F	1608.4	+1911
1954A	1213.1	+3637	1970C	1258.0	-0612	1961J	1609.8	+2942
1960E	1215.1	+4810	1964D	1258.1	-1424	1953B	1619.2	+4014
1963G	1215.3	+2618	1950A	1258.5	+2817	1964I	1621.4	+4120
1967H	1216.3	+1442	1959B	1259.0	+2808	1964G	1621.9	+3920
1936A	1217.4	+0537	1962I	1300.5	+2747	1968T	1625.3	+4122
1926A	1219.3	+0445	1968X	1301.7	-1005	1966C	1627.5	+4106
1961I	1219.3	+0445	1937C	1303.5	+3752	1926B	1630.1	+1956
1964F	1219.3	+0445	1962A	1304.3	+2808	1953C	1827.4	+4813
1901B	1220.4	+1606	1956D	1305.2	-0035	1934A	1829.0	-5646
1914A	1220.4	+1606	1968I	1306.1	-0631	1962J	1951.8	-1242
1959E	1220.4	+1606	1952E	1307.2	-0313	1917A	2033.8	+5959
1955E	1220.6	+5844	1954H	1307.9	-0723	1939C	2033.8	+5959
1957B	1222.5	+1310	1959C	1308.8	+0340	1948B	2033.8	+5959
1960J	1222.5	+2850	1950C	1311.2	+3651	1968D	2033.8	+5959
1960R	1222.9	+1828	1971I	1313.5	+4217	1968S	2142.3	+0251
1965A	1223.9	+0917	1969F	1317.4	-1652	1951A	2152.7	-0432
1960I	1224.6	+4833	1962H	1321.8	-2052	1960L	2158.3	+1730
1895A	1224.7	+0942	1945A	1327.9	+4731	1937B	2207.9	-2256
1966F	1226.2	+0647	1923A	1334.3	-2937	1970H	2220.2	+3546
1919A	1228.3	+1240	1950B	1334.3	-2937	1964H	2226.1	+3003
1960F	1229.1	+0413	1957D	1334.3	-2937	1959D	2234.8	+3410
1970A	1230.2	+1420	1968L	1334.3	-2937	1960K	2237.4	+3407
1969G	1231.2	+0610	1895B	1337.1	-3124	1964K	2312.2	+0726
1969E	1231.5	+0758	1909A	1401.5	+5435	1970I	2315.1	+0544
1915A	1231.6	+0256	1970G	1401.5	+5435	1965M	2316.5	-0846
1960B	1232.2	+0917	1968J	1404.1	+5322	1970J	2317.7	+0755
1940D	1232.4	+6348	1971F	1410.9	-3222	1968M	2318.5	+1457
1954G	1232.8	-1858	1954B	1430.9	+0440	1953E	2331.2	+2946
1941A	1233.4	+2814	1940C	1505.6	+5644	1960O	2333.9	+2739
1961H	1233.9	+1143	1971D	1506.4	-1108	1968P	2335.1	+2632
1939B	1239.5	+1155	1954C	1508.4	+5712	1953F	2335.4	+3143
1946B	1240.0	+0010	1963B	1509.0	+0526	1961N	2336.2	+2644
1939A	1240.3	+0258	1963O	1514.0	+5542	1969K	2338.2	+2633
1956C	1240.6	+0405	1940A	1514.6	+5630	1968Z	2348.4	+2653
			1961E	1515.1	+0514			